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Product datasheet for TP310027L

PYCR1 (NM_006907) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human pyrroline-5-carboxylate reductase 1 (PYCR1), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210027 representing NM_006907 Red=Cloning site Green=Tags(s) MSVGFIGAGQLAFALAKGFTAAGVLAAHKIMASSPDMDLATVSALRKMGVKLTPHNKETVQHSDVLFLAV KPHIIPFILDEIGADIEDRHIVVSCAAGVTISSIEKKLSAFRPAPRVIRCMTNTPVVVREGATVYATGTH AQVEDGRLMEQLLSSVGFCTEVEEDLIDAVTGLSGSGPAYAFTALDALADGGVKMGLPRRLAVRLGAQAL LGAAKMLLHSEQHPGQLKDNVSSPGGATIHALHVLESGGFRSLLINAVEASCIRTRELQSMADQEQVSPA AIKKTILDKVKLDSPAGTALSPSGHTKLLPRSLAPAGKD TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	33.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_008838
Locus ID:	5831

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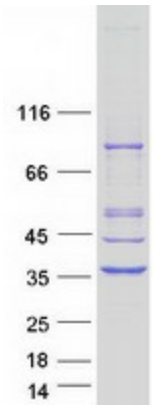
UniProt ID:	P32322, A0A024R8U9, Q8TBX0
RefSeq Size:	2059
Cytogenetics:	17q25.3
RefSeq ORF:	957
Synonyms:	ARCL2B; ARCL3B; P5C; P5CR; PIG45; PP222; PRO3; PYCR
Summary:	This gene encodes an enzyme that catalyzes the NAD(P)H-dependent conversion of pyrroline-5-carboxylate to proline. This enzyme may also play a physiologic role in the generation of NADP(+) in some cell types. The protein forms a homopolymer and localizes to the mitochondrion. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]
Protein Pathways:	Arginine and proline metabolism, Metabolic pathways

Product images:



Coomassie blue staining of purified PYCR1 protein (Cat# [TP310027]). The protein was produced from HEK293T cells transfected with PYCR1 cDNA clone (Cat# [RC210027]) using MegaTran 2.0 (Cat# [TT210002]).